

WHAT IS CLAIMED:

- 1        1. A motor, comprising:  
2            a stator having stator poles configured to produce  
3            electromagnetic flux when electrically energized;  
4            a conduit positioned between the stator poles; and  
5            a rotor positioned within the conduit and having  
6            rotor poles and rotatable in response to the electromagnetic  
7            flux, the poles having laminations sufficiently skewed for  
8            pumping fluid through the conduit during rotation.
  
- 1        2. The motor of claim 1, wherein the conduit  
2            comprises a tube.
  
- 1        3. The motor of claim 2, wherein the tube is  
2            affixed to the stator poles.
  
- 1        4. The motor of claim 3, wherein the outer  
2            circumference of the tube includes interlocks.
  
- 1        5. The motor of claim 2, wherein the tube is  
2            formed from plastic.
  
- 1        6. The motor of claim 2, wherein the tube is  
2            formed from metal.
  
- 1        7. The motor of claim 2, wherein the tube is  
2            non-magnetic.
  
- 1        8. The motor of claim 1, wherein the conduit  
2            comprises a packed stator.
  
- 1        9. The motor of claim 1, wherein the conduit is  
2            formed by a configuration of the stator.

1                   10. The motor of claim 1, wherein the rotor  
2 includes a coating.

1                   11. The motor of claim 1, wherein the motor  
2 comprises a switched reluctance motor.

1                   12. The motor of claim 1, wherein the motor  
2 comprises an induction motor.

1                   13. The motor of claim 1, wherein the motor  
2 comprises a permanent magnet synchronous motor.

1                   14. The motor of claim 1, wherein the motor  
2 comprises a salient pole synchronous motor.

1                   15. The motor of claim 1, wherein the motor  
2 comprises a DC motor.

1                   16. The motor of claim 1, wherein the conduit  
2 provides a substantially air-tight seal for the fluid to  
3 flow along the rotor.

1                   17. A motor having skewed rotor laminations for  
2 pumping fluid, the motor comprising:

3                   a fixed stator having stator poles;

4                   a rotatable rotor having sufficiently skewed  
5 laminations to move fluid when rotated; and

6                   a conduit positioned between the stator and the  
7 rotor for substantially directing the moved fluid.

1                   18. The motor of claim 20, wherein the conduit  
2 comprises a tube affixed to the stator.

1                   19. A method for pumping fluid, the method  
2 comprising:

3                   providing a motor having a stator and a laminated  
4 rotor rotatable relative to the stator;

5                   skewing the rotor laminations sufficiently to pump  
6 fluid through the motor when the rotor rotates;

7                   rotating the rotor to pump the fluid; and

8                   confining the fluid around the rotor as the fluid  
9 is pumped.

1                   20. The method of claim 19, further comprising  
2 confining the fluid with a conduit that produces a  
3 substantially air-tight seal as the fluid flows around the  
4 rotor and collecting reliable flow data on the pumped fluid.